



Analytical Laboratory

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13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13070039

Project Name: NPDES - MONTHLY

Customer Name(s): Michael Byrd, Craig Mercer, Mark J Harper, Todd Spade, Matthew Hoyt

Customer Address: 11021 BROWER RD.

NORTH BEND, OH 45052

Lab Contact: Mary Ann Ogle

Phone: 980-875-5274

Report Authorized By:
(Signature)

Mary Ann Ogle

Date: 7/10/2013

Program Comments:

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013015241	MIAMI-FORT	02-Jul-13 8:50 AM	Mark Harper	OUTFALL 002
2013015242	MIAMI-FORT	02-Jul-13 9:10 AM	Mark Harper	OUTFALL 608
2 Total Samples				

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).

☒ Yes☐ No

All Results are less than the laboratory reporting limits.

☐ Yes☒ No

All laboratory QA/QC requirements are acceptable.

☒ Yes☐ No

Report Sections Included:

☒ Job Summary Report☒ Sample Identification☒ Technical Validation of Data Package☒ Analytical Laboratory Certificate of Analysis☐ Analytical Laboratory QC Report☐ Sub-contracted Laboratory Results☐ Customer Specific Data Sheets, Reports, & Documentation☐ Customer Database Entries☒ Chain of Custody☐ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: DBA Account

Date: 7/10/2013

Certificate of Laboratory Analysis

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*This report shall not be reproduced, except in full.***Order # J13070039**

Site: OUTFALL 002

Collection Date: 02-Jul-13 8:50 AM

Sample #: 2013015241

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL DISSOLVED SOLIDS</u>								
TDS	750	mg/L		125	1	SM2540C	07/08/2013 14:22	SWILLI3

Site: OUTFALL 608

Collection Date: 02-Jul-13 9:10 AM

Sample #: 2013015242

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>ALKALINITY (FIXED END POINT 4.5)</u>								
Alkalinity (mg/L CaCO ₃)	1200	mg/L (CaCO ₃)		0.1	1	SM2320B	07/09/2013 11:32	TJA7067
<u>INORGANIC IONS BY IC</u>								
Chloride	4900	mg/L		100	1000	EPA 300.0	07/05/2013 13:37	JAHERMA
Fluoride	20	mg/L		10	100	EPA 300.0	07/05/2013 13:37	JAHERMA
Sulfate	9500	mg/L		200	2000	EPA 300.0	07/05/2013 13:37	JAHERMA
<u>TOTAL METALS BY ICP</u>								
Boron (B)	418	mg/L		1	20	EPA 200.7	07/08/2013 09:10	MHH7131
Iron (Fe)	0.054	mg/L		0.01	1	EPA 200.7	07/08/2013 09:10	MHH7131
Manganese (Mn)	0.273	mg/L		0.005	1	EPA 200.7	07/08/2013 09:10	MHH7131
<u>TOTAL RECOVERABLE METALS BY ICP-MS</u>								
Arsenic (As)	< 20	ug/L		20	1	EPA 200.8	07/09/2013 10:23	DJSULL1
Barium (Ba)	143	ug/L		20	1	EPA 200.8	07/09/2013 10:23	DJSULL1
Cadmium (Cd)	< 20	ug/L		20	1	EPA 200.8	07/09/2013 10:23	DJSULL1
Chromium (Cr)	< 20	ug/L		20	1	EPA 200.8	07/09/2013 10:23	DJSULL1
Copper (Cu)	< 20	ug/L		20	1	EPA 200.8	07/09/2013 10:23	DJSULL1
Lead (Pb)	< 20	ug/L		20	1	EPA 200.8	07/09/2013 10:23	DJSULL1
Zinc (Zn)	< 20	ug/L		20	1	EPA 200.8	07/09/2013 10:23	DJSULL1
<u>TOTAL DISSOLVED SOLIDS</u>								
TDS	29000	mg/L		500	1	SM2540C	07/08/2013 14:22	SWILLI3
<u>TOTAL SUSPENDED SOLIDS</u>								
TSS	21	mg/L		5	1	SM2540D	07/08/2013 11:22	SWILLI3

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM



Duke Energy Analytical Laboratory

Mail Code MGO3A2 (Building 7405)
13339 Hagers Ferry Rd
Huntersville, N. C. 28078

(704) 875-5245

(704) 875-4349

Fax:

Analytical Laboratory Use Only

LIMS # J13070039	Sample Class: NPDES	Samples Originating From	OHIO
Logged By SA	Date & Time 7/3/13 1135	SAMPLE PROGRAM NPDES	
Vendor 1.0	Cooler Temp (C)		
PO #	15 Preserv.: 1=HCL 2=H ₂ SO ₄ 3=HNO ₃ 4=Ice 5=None	4	4

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DISTRIBUTION
ORIGINAL to LAB,
COPY to CLIENT

IMR #	16 Analyses Required	4	4	3	4	4
Customer to complete all appropriate non-shaded areas.		B, Fe, Mn, As, Ba, Cd, Cr, Cu, Pb, Zn				

14 Collection Information

Date Time Signature

7-2-13 0850 Mark Harper
7-2-13 0910 Mark Harper

17 Comp.

X X

18 Grab

1 1

TDS

1 1

Cl, F, SO4

1 1

B, Fe, Mn, As, Ba,

1 1

Cd, Cr, Cu, Pb, Zn

1 1

TSS

1 1

Alkalinity

1 1

Customer must Complete

LAB USE ONLY
11 Lab ID
2013015241
2013015242

Customer to complete appropriate columns to right

12 Chem Desktop No.	13 Sample Description or ID
	Outfall 002
	Outfall 608

Customer to sign & date below - fill out from left to right.

1) Relinquished By Mark Harper	Date/Time 7-2-13 0920	2) Accepted By COURIER	Date/Time 7/2/13
3) Relinquished By COURIER	Date/Time 7/3/13 1120	4) Accepted By SA	Date/Time 7/3/13 1120
5) Relinquished By	Date/Time	6) Accepted By	Date/Time
7) Relinquished By	Date/Time	8) Accepted By	Date/Time
9) Seal/Locked By Mark Harper	Date/Time 7-2-13 0920	10) Seal/Lock Opened By SA	Date/Time 7/3/13 1130
11) Seal/Locked By	Date/Time	12) Seal/Lock Opened By	Date/Time

Customer, IMPORTANT!
Please indicate desired turnaround.

22 Requested Turnaround

10 Days X

*7 Days

*48 Hr

*Other

* Add. Cost Will Apply

Comments:

ICP TOT - B, Fe, Mn IMS-TRM - As, Ba, Cd, Cr, Cu, Pb, Zn

FE HACH = 0.00mg/L